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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/071,400	02/07/2002	Ni Ding	10177-111-999	1077
20583 JONES DAY	7590 02/27/2007	ķ	EXAM	IINER
222 EAST 41ST ST NEW YORK, NY 10017			THANH, LOAN H	
			ART UNIT	PAPER NUMBER
			3763	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		02/27/2007	· PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)	
	10/071,400	DING ET AL.	
Office Action Summary	Examiner	Art Unit	
	LoAn H. Thanh	3763	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by so Any reply received by the Office later than three months after the nearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNI R 1.136(a). In no event, however, may a l. l. rind will apply and will expire SIX (6) MON tatute, cause the application to become Al	CATION. reply be timely filed  ITHS from the mailing date of this communication.  3ANDONED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on 1	2 January 2007.		
	This action is non-final.		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is			
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>14-17 and 20-22</u> is/are pending in	the application.		
4a) Of the above claim(s) is/are with	• •		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>14-17,20-22</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction ar	nd/or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Exan	niner.		
10)☐ The drawing(s) filed on is/are: a)☐	accepted or b)☐ objected to	by the Examiner.	
Applicant may not request that any objection to			
Replacement drawing sheet(s) including the co			
11) The oath or declaration is objected to by the	E Examiner. Note the attached	I Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
<ul><li>12) ☐ Acknowledgment is made of a claim for fore</li><li>a) ☐ All b) ☐ Some * c) ☐ None of:</li></ul>		119(a)-(d) or (f).	
1. Certified copies of the priority docum			
2. Certified copies of the priority docum			
3. Copies of the certified copies of the		received in this National Stage	
application from the International Bu  * See the attached detailed Office action for a		received	
and attached detailed Office action for a	not or the certified copies flot	I EUGIYEU.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview 9	Summary (PTO-413)	
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(	s)/Mail Date	
Information Disclosure Statement(s) (PTO/SB/08)     Paper No(s)/Mail Date	5)  Notice of I	nformal Patent Application	
C Description of Trade and Office			

### **DETAILED ACTION**

### Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 1/12/07 has been entered.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 14-15,17,20-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Baran ( USPN 4,417,576).

Baran disclose a catheter comprising a balloon E having an outer surface, a membrane U having a plurality of pores therein and having an outer and inner surface wherein the membrane is disposed about the balloon; a reservoir/space between the outer surface of the balloon and the inner surface of the membrane and wherein the reservoir is connected to a reservoir lumen S and a biostable sponge coating D disposed upon the outer surface of the membrane wherein the sponge coating D is

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exposed to the body lumen when the catheter is inserted or implanted into the body lumen. The material of the sponge coating is rubber which is a non-hydrogel polymer. The balloon inflation lumen is T. Applicant has claimed a reservoir but only functionally claimed the reservoir capable of containing a biologically active material. Claim 15 is considered to be product by process. See figures 1-3.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 16 is rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Baran ( USPN 4,417,576).

Baran discloses the invention as substantially claimed. See above. The Examiner is considering Baran to have a void space, which is greater than about 60% of the volume of the sponge coating when in the expanded condition. If Applicant does not deem this feature to be anticipated as shown in Figure 3, then it would have been obvious to one of ordinary skill in the medical balloon art to modify the void space to have a greater than about 60% volume of the sponge coating when in the expanded region in order to allow biological active material to be release to the tissue.

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## Response to Arguments

Applicant's arguments with respect to claims 14-17,20-22 have been considered but are persuasive. Applicant has argued the claim as amended. The Examiner is maintaining the rejection. With respect to applicant's arguments regarding Baran does not discloses a "catheter" or a "membrane", the Examiner is not in agreement. The language of "catheter" and "membrane" is considered to be broad and lacks any structurally distinguishing features that would over come Baran. A catheter is well known in the medical art as a tubular device. As such, Baran shows a catheter. With respect to the "membrane" language, a similar position is being held by the Examiner. Membrane is considered broad lacking any structural distinguishing features and Baran is considered to disclose a membrane "U". Applicant has claimed a membrane with a plurality of pores. The sponge of U of Baran encompasses the language of the membrane of Applicant. The Examiner has clearly explained the elements that applicant has claimed in the broadest interpretation. Baran does disclose a catheter having a balloon E having an outer surface, a membrane U with an outer surface, inner surface and a plurality of pores therein and disposed about the balloon, a reservoir between the outer surface of the balloon and the inner surface of the membrane and a sponge coating D upon the outer surface of the membrane and the sponge coating D exposed to the body lumen. In the broadest interpretation, the space between the "membrane" U and the balloon E is considered the reservoir. Further, with respect to applicant's argument regarding the "biostable sponge coating", applicant has claimed this to be a non-hydrogel polymer having a plurality of voids which Baran shows as D

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which is made of rubber and has a plurality of voids M as explained in the office action.

The claims are interpreted in the broadest interpretation given the broad language.

Applicant is suggested to claim structurally distinguishing features to overcome the prior art.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LoAn H. Thanh whose telephone number is (571) 272-4966. The examiner can normally be reached on Mon. - Fri. (First Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nick Lucchesi can be reached on (571) 272-4977. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LoAn H. Thaññ Primary Examiner Art Unit 3763